NC/QC/YD/2019-20/W6-PT-C1 **Date: 23-11-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**161 min**	Shall not be less than 30 min
2	Final setting time	**280 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.11%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.71 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YD/2019-20/W6-PT-PCC1 **Date: 23-11-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	62.95	0 -20	30- 70
10mm	17.30	0 -5	10- 35
4.75mm	4.30	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.10	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.65	60-95	75-100	85-100	
01.18	71.80	30-70	55-90	75-100	
600.mic	50.35	15-34	35-59	60-79	
300.mic	16.75	5-20	8-30	12-40	
150.mic	8.45	0-10	0-10	0-10	

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EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W6-PT-C2 **Date: 30-11-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**161 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.93 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.86 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.47 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YD/2019-20/W6-PT-FA1 **Date: 30-11-2019**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}

Ref.: Material testing/PMC/19-20,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.65**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.10**	60-95	75-100	85-100	
01.18	**79.45**	30-70	55-90	75-100	
600. mic	**42.35**	15.34	35-59	60-79	
300.mic	**25.10**	5-20	8-30	12-40	
150.mic	**5.60**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.64 %**	-----
2	Silt Content	----	**0.60 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/QC/YD/2019-20/W6-PT-CA1 **Date: 30-11-2019**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}

Ref.: Material testing/PMC/19-20,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.60	85-100	90 - 100
10 mm	45.05	0 - 20	25 - 55
4.75 mm	4.55	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	23.16 %	Not to exceed 25 %
2.	Crushing value	27.59 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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Page No. 1/1

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NC/QC/YD/2019-20/W6-PT-S1

Date: 30-11-2019

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 mm **TMT Steel.**
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE – 1

SL No	Details	For 10 mm	
		Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.624**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**541.0**	500.0
04	Bend/ Re bend Test	**Ok**	---
05	Percentage of Elongation, %	**20.50**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**641.0**	545.0

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Page No. 1/1,

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NC/QC/YD/2019-20/W6-PT-SSM1 **Date: 04-12-2019**

1.TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.

{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}

Ref.: Material testing/PMC/19-20,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1328.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.44 %**	Not more than 2.0 %

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NC/QC/YD/2019-20/W6-PT-SB1 **Date: 07-12-2019**

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.

{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}

Ref.: Material testing/PMC/19-20,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks)

BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen **mm**	Details	Cross Sectional Area **mm^2**	Maximum Load in **KN**	Compressive Strength **N/ mm^2**	**Average Compressive Strength N/ mm^2**
1	400 X 150 X 200	**Solid**	60000	255	4.25	**4.25**
2	,,	,,	60000	265	4.42	
3	,,	,,	60000	245	4.08	

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NC/QC/YD/2019-20/W6-PT-CB1

Date: 16-12-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	09-12-19	16-12-19	07	22500	380	16.89	**16.52**
	002	"	"	"	"	360	16.00	
	003	"	"	"	"	375	16.67	

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NC/QC/YD/2019-20/W6-PT-CB2

Date: 18-12-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-12-19	18-12-19	07	22500	365	16.22	**16.15**
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	355	15.78	

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NC/QC/YD/2019-20/W6-PT-CB3 **Date: 23-12-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-12-19	23-12-19	07	22500	360	16.00	**16.37**
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	365	16.22	

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NC/QC/YD/2019-20/W6-PT-CB4 **Date: 26-12-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-12-19	26-12-19	07	22500	365	16.22	**16.30**
	002	"	"	"	"	360	16.00	
	003	"	"	"	"	375	16.67	

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NC/QC/YD/2019-20/W6-PT-CB1A

Date: 06-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	09-12-19	06-01-20	28	22500	505	22.44	**22.07**
	002	"	"	"	"	490	21.78	
	003	"	"	"	"	495	22.00	

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NC/QC/YD/2019-20/W6-PT-CB2A

Date: 08-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-12-19	08-01-20	28	22500	510	22.67	**22.67**
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	520	23.11	

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NC/QC/YD/2019-20/W6-PT-CB3A

Date: 13-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-12-19	13-01-20	28	22500	495	22.00	**22.15**
	002	"	"	"	"	505	22.44	
	003	"	"	"	"	495	22.00	

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